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cont. Application No. 08/510,104 was in turn filed as a division of application No.07/819,120

filed January 10, 1992, now U.S. Patent No. 5,437,278. This application is also a
continuation of application No. 08/892,955 filed July 16, 1997.

now U.S. Pat. No. 6022432

IN THE CLAIMS:

Renumber the last claim from "40" to - 42--.

Add the following new claims:

20 ~~43~~. A medical scanning method comprising:

providing a plurality of electromechanical sensors mounted to a carrier;
disposing said carrier in fixed relation to a patient;
a 2 after the disposing of said carrier, activating said sensors to detect ultrasonic
pressure waves encoding three-dimensional structural data pertaining to internal organic
structures of the patient;

during the activating of said sensors and the collection of said data, maintaining
said carrier in said fixed relation and said sensors in fixed positions relative to the patient;
and

operating on the data from said sensors to produce an electronically encoded
three-dimensional model of said internal organic structures.

21 *20*
~~44~~. The method defined in claim ~~43~~ wherein said three dimensional model is
produced from said data alone.

27 *20*
~~45~~. The method defined in claim ~~43~~, further comprising generating an image of at
least one of said internal structures from said model.